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To enrich lives through effective and caring service.

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March 1, 2007

To: Each Supervisor

From: Dave Lambertson
Director

*Tam Tindall
for*

Subject: **ANNUAL CLEAN FUELS REPORT**

The Board of Supervisor's "Clean Fuels" policy was adopted on January 10, 1995. The policy requires that by March 1 of each year, departments report on the composition of their fleet and their progress toward acquiring clean fuel vehicles.

Attachment 1 is the 2007 report, which includes data on all of the County departments and vehicles for which ISD provides automotive services. County Departments maintaining their own vehicles (Sheriff, Public Works, and Fire Department) will report separately.

The ISD-maintained motor vehicle fleet includes 3,833 powered vehicles. Currently, 286, or 7.5% of these vehicles are alternative fuel vehicles (AFV's). There is a net decrease of 116 AFV's in 2006. The decrease is attributable to the disposal of 91 older model diesel vehicles to meet new regulations that became effective on January 3, 2007. The new regulation will be discussed in the latter part of this report. Other AFV's also decreased because they were at the end of their useful life. However, hybrid vehicles in the fleet increased by 83 units for 2006. The attached report shows that County departments purchase a variety of alternative fuel types including hybrid, electric, natural gas, bi-fuel, flex-fuel and propane. Also reflected is information captured to date on certified low emission vehicles (LEV's) and ultra-low emission vehicles (ULEVs) as defined by the California Air Resources Board. ISD will continue to examine and record emissions for the remainder of our fleet and all new vehicles.

Hybrid Vehicles

During the last year, ISD has actively pursued avenues to help County departments learn about and acquire hybrid sedans in support of the November 2005 Board of Supervisors direction for departments to acquire hybrid sedans for routine, non-emergency County business, whenever practical and economically feasible, beginning no later than July 1, 2006. The following actions were taken during this report period:

- In Spring 2006, the shortage of hybrid vehicles limited the County's ability to acquire hybrid sedans. ISD notified Toyota and Honda corporate offices of our concerns on the limited number of hybrid Prius and Civics being made available

for sale to government and commercial fleets nationwide. As a result, Toyota committed to a significant increase in the allocation of Prius hybrids to Los Angeles County. The allocation is currently 10 – 20 vehicles per month.

- ISD's Purchasing and Contracts created an exemption from year-end purchasing deadlines for hybrid vehicle requisitions and periodically encourages County Administrative Deputies, Materials Managers, and Vehicles Coordinators to submit hybrid vehicle requisitions early in the year to ensure vehicle acquisition from our annual allocation.
- ISD established a new approach to bidding the County's requirement for hybrid vehicles. This resulted in an award to Toyota with significantly improved pricing and delivery timeframe.

As a result, County departments purchased and received 83 hybrid sedans in calendar 2006. An additional 12 hybrid sedans are currently on order.

Additionally, ISD is working with Toyota to schedule a Toyota's Highway to the Future event for County Vehicle Coordinators and County employees. The event features a Mobile Hybrid Experience trailer that is designed to increase awareness and education of hybrid technologies, alternative fuels, and the benefits of hybrids. Toyota's Mobile Hybrid Experience trailer has several interactive and hands-on exhibits to help convey the benefits. Toyota may also offer a ride and drive opportunity in support of the event.

Plug-In Hybrid Electric Vehicles

Plug-In Hybrid Electric Vehicle (PHEV) technology will soon be added to our County fleet in collaboration with the Quality and Productivity Commission. ISD has purchased and dedicated two Toyota Priuses to undergo conversion from electric/gasoline hybrid technology to PHEV technology. The Quality and Productivity Commission has approved a grant to ISD to fund the conversion cost.

This emerging technology involves adding to the hybrid vehicle greater battery capacity and a battery charger that can be plugged into a conventional electrical outlet. This allows the converted vehicle to increase the range it can travel on an electric charge, decrease its use of gasoline, and greatly improve the vehicle's overall miles per gallon (mpg) performance. It has been reported that PHEVs are capable of achieving 200 mpg at low speeds (less than 55 miles per hour) and with mild acceleration. Although other sources suggest a realistic rating is 100 mpg overall. These vehicles may be capable of traveling distances of up to 35 miles on battery charge alone, during which no gasoline is used.

ISD will work with other County departments to evaluate the PHEV usefulness to perform County missions and the fuel savings that ensue following conversion of the two Priuses in Spring, 2007.

ISD Flexible Fuel Vehicles Initiative

Flexible Fuel Vehicles (FFV) are capable of running on conventional gasoline or E85 ethanol. Ethanol is a renewable fuel produced in the United States from grain such as corn, barley and wheat. E85 fuel consists of 85% ethanol and 15% gasoline. This alternate fuel burns cleaner than gasoline, helps reduce air pollution, and reduces the consumption of gasoline.

Currently, there are 14 FFV sedans in the ISD-managed County fleet. However, there are no E85 fueling stations in Los Angeles County. To allow us to fuel our FFVs and investigate the benefits of FFV usage, ISD will be converting one of our Eastern Avenue fueling stations to an E85 fueling station. ISD has obtained a grant from the Quality and Productivity Commission to fund the conversion of the fueling station and to purchase an FFV pick up truck to add to our fleet for testing it's suitability for performing typical County missions.

ISD is currently working with the California Air Resources Board and the South Coast Air Quality Management District to obtain required approvals and permits to convert the fueling station to E85.

New Regulation for Diesel Vehicles

Although diesel engines provide efficiency and fuel economy for heavy duty vehicle uses, these engines are a source of particulate matter (a toxic air contaminant) and gaseous pollutants such as unburned hydrocarbons, nitrogen oxides, and carbon monoxide. On January 3, 2007 a new regulation (California Code of Regulations, Title 13, Section 2022) went into effect requiring diesel powered vehicles belonging to government and utility agencies to have particulate filters installed, be re-powered with engines using the best available technology currently available, or to be disposed. This regulation requires implementation by 2011.

ISD identified affected vehicles and estimated costs for installing particulate filters on County diesel vehicles managed by ISD. The information was provided to County departments in September 2006 and ISD began to work with departments to evaluate the vehicles and determine the best course of action for departments based on usage. Responsiveness from departments has been very encouraging. We expect affected ISD-managed diesel vehicles to be in compliance well within the required compliance timeframes detailed below.

GROUP	ENGINE MODEL YEARS	PERCENTAGE OF GROUP TO USE BEST AVAILABLE TECHNOLOGY	COMPLIANCE DEADLINE: DECEMBER 31 ST OF:
1	1960-1987	20% 60% 100%	2007 2009 2011
2	1988-2002	20% 60% 100%	2007 2009 2011
3	2003-2006 (Includes dual-fuel and bi-fuel engines)	50% 100%	2009 2010

Hydrogen Fuel Cell

Along with other alternative fuel sources, hydrogen fuel cell power will help California meet Governor Schwarzenegger's greenhouse gas emission reduction targets. To support this effort, the State of California created the California Hydrogen Highway initiative to catalyze hydrogen transportation infrastructure throughout California. Additionally, the California Fuel Cell Partnership (a collaboration of auto manufacturers, energy providers, government agencies, fuel cell technology companies and transit agencies) is working together to promote the commercialization of hydrogen fuel cell vehicles.

For example, General Motors (GM) plans to introduce a dedicated hydrogen powered compact SUV. ISD has confirmed our interest to be included in GM's testing and evaluating of program. If selected, we will be allowed to drive and evaluate this hydrogen powered vehicle during the test period. GM will name the participants selected in late calendar year 2007 and testing is planned for early 2008.

ISD will continue to explore alternate fuel vehicles, pilot new technology, educate County departments, and recommend amendments to the Clean Fuels Program Policy as necessary.

Please feel free to contact me or your staff may contact David Yamashita, General Manager, Purchasing and Contract Services at (323) 267-2109 or via e-mail at dyamashita@isd.lacounty.gov.

DL:DY:lc

Attachments

- c: Department Heads
- Administrative Deputy
- Vehicle Coordinator
- ISD Board Deputies

Fleet Composition by Department

Attachment I

Department	TOTAL	Gas	Diesel	CNG	CNG/ Gas	Methanol/ Gasoline	Ethanol/ Gasoline	Propane/ Gas	Propane	Electric	Hybrid Gasoline	Total AFV	AFV as % of TOTAL	Emission Certifications*	% of Fleet with Emission Certifications
AgComm/Weights & Measures	299	293	5								1	6	2.0%	46	15.4%
Alternate Public Defender	4	4										-	0.0%	1	25.0%
Animal Care & Control	76	76										-	0.0%	1	1.3%
Assessor	8	7									1	1	12.5%	4	50.0%
Auditor-Controller	5	4									1	1	20.0%	1	20.0%
Beaches & Harbors	164	153	11									11	6.7%	17	10.4%
Board of Supervisors	72	62									10	10	13.9%	20	27.8%
Chief Administrative Office	11	11										-	0.0%	1	9.1%
Chief Information Officer	1	1										-	0.0%	-	0.0%
Child Support Services	13	13										-	0.0%	4	30.8%
Children and Family Services	76	76										-	0.0%	13	17.1%
Community and Senior Services	25	25										-	0.0%	14	56.0%
County Counsel	1	1										-	0.0%	-	0.0%
District Attorney	236	230									6	6	2.5%	72	30.5%
Health Services	277	257	15		1			2			2	20	7.2%	3	1.1%
Human Relations Commission	1	1										-	0.0%	-	0.0%
Human Resources	2	2										-	0.0%	-	0.0%
ISD	803	704	13	28	8	4	14		3	7	22	99	12.3%	479	59.7%
Medical Examiner-Coroner	59	58	1									1	1.7%	-	0.0%
Mental Health Services	203	159									44	44	21.7%	81	39.9%
Military & Veteran Affairs	1	1										-	0.0%	-	0.0%
Museum of Art	1	1										-	0.0%	-	0.0%
Museum of Natural History	15	13	2									2	13.3%	-	0.0%
Office of Public Safety	226	222	3								1	4	1.8%	9	4.0%
Parks & Recreation	487	459	27								1	28	5.7%	183	37.6%
Probation	365	343	10								12	22	6.0%	116	31.8%
Public Defender	5	5										-	0.0%	2	40.0%
Public Health	247	226	12	7	1						1	21	8.5%	42	17.0%
Public Library	62	59	2	1								3	4.8%	6	9.7%
Public Social Services	27	24	3									3	11.1%	6	22.2%
Registrar Recorder/County Clerk	50	47	3									3	6.0%	23	46.0%
Treasurer-Tax Collector	11	10							1			1	9.1%	-	0.0%
TOTAL POWERED VEHICLES	3,833	3,547	107	36	10	4	14	-	6	7	102	286	7.5%	1,144	29.8%
PERCENT TOTAL VEHICLES		92.5%	2.8%	0.9%	0.3%	0.1%	0.4%	0.0%	0.2%	0.2%	2.7%	7.5%			

Note: List does not include non-powered equipment such as trailers.

*Vehicles certified to meet or exceed the Low Emission Vehicle standard as established by the California Air Resources Board.

Not all vehicles have been examined to determine emissions certification. To date, 1,400 vehicles have been examined.